



# THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.  
Founded in 1931

## THE JULY RARA MEETING IS THE RARA PICNIC ON SATURDAY JULY 14 (11AM)

It's time for the annual RARA Summer picnic! This is always a great occasion and an opportunity to enjoy good food, good company and play with radios! RARA provides the food and beverages and we'll have our club radio set up. Mark the date in your diary and come enjoy the fun!

If possible we will also organize a Radio Fox Hunt as in previous years. That is lots of fun and you don't even need a ham license to take part. All you need is your 2M handheld so remember to bring that..

Feel free to bring any other radio gear that you would like to demonstrate or use – the more the merrier.

The picnic is at the Stewart Lodge in Mendon Ponds Park on Saturday July 14<sup>th</sup> (11.00 am – 2pm). For directions and the latest information please check the [summer picnic](#) page on our website. We will be setting up around 11:00am, the grill gets ready around noon and the burgers and hots will be ready soon after that. You are of course welcome to get there early to enjoy the day and each other's company. We invite you to bring a dessert to pass so we can have an assortment of treats to choose from. In the past we have had some impressive goodies. Please take this opportunity to show off your culinary skills!

There will be door prizes—gift certificates for magazine subscriptions.



Good food, good company and radios to play with!

JULY 2018  
VOLUME 70, ISSUE 11

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# RARA



# BOARDZ BUZZ

TIM BARRETT, K9VB

We are coming up to the membership renewal season in a couple of months so I thought I would use this opportunity to give you a few details about the club membership and the renewal process from my perspective as the Club Membership Secretary. Total membership stands at a little over 500 members. That's a good solid number and, according to the ARRL, means we are one of the ten largest ARRL affiliated clubs in the country. However, our membership has declined over the past few years and that is a cause for concern.

Why be a member of RARA? Advantages are listed on our web-site and current members will be aware of them so I don't plan to dwell on those. Rather I'd like to talk about the benefits of the existence of RARA to the amateur radio community here in the Rochester area.

Did you attend our Hamfest back at the beginning of June? I heard nothing but praise and compliments this year. As one visitor said to me on the membership stand, RARA is BACK with the best Hamfest in the area! Kudos to Tim Guyot and his team for that, they really did an excellent job and I know it was a lot of work. But the key point here is that it would not have happened without RARA and RARA would not be here without its members.

There are many other benefits that RARA brings to the Rochester area amateur radio community: licensing classes, license exams, regular meetings, this newsletter (which goes out to the wider Ham Radio community in Rochester, not just club members). And we have a great website, have you visited it recently? Our webmaster Scott Theis is doing a fantastic job – I especially like the news features on the home page with links to interesting articles that change regularly. If you haven't checked it for a while, take a look!

Elsewhere in this issue you will see RARA presented a grant to a local school so that 5<sup>th</sup> and 6<sup>th</sup> graders get an introduction to robotics and a great start in understanding how an interest in technology can enhance their lives. Again, this would not have happened without RARA.

These are all great reasons for supporting your club and help keep the ham radio community alive and well!

By the way the club has also just invested in a couple of new signs to help publicize the club and amateur radio – look out for them at upcoming events. I think they look great!

Finally, I'd like to explain a little about the membership process itself. As you probably know, we operate on an annual renewal running up to September 30<sup>th</sup> each year. That means our membership drops right down on October 1<sup>st</sup> and slowly rises throughout the year. Renewing promptly is very helpful in getting our numbers back up with the minimum of delay. And you don't need to wait until membership expires – you can go to the renewal page on our website and

renew right now. Some members even do this twice, that way their membership is valid for two years.

Some of you have asked why there is a delay between making your renewal and seeing any confirmation. Unfortunately, the truth is that what looks like an automated system is a manual process. When you renew on-line it just sends an email to me and I then update the database. Sometimes a backlog builds up because life gets in the way but don't worry, we do have your details and the database will get updated. Scott and I are hoping to find time to automate this process but that all takes time especially as we both have day jobs!

So, if your membership isn't up to date or is going to expire in September consider going to our website now and join, rejoin or renew. It doesn't cost much, it's easy to do and you are doing something to help amateur radio!

## CALENDAR OF EVENTS

**WEDNESDAY JULY 4, 2018-** RARA General Meeting  
**CANCELLED—The meeting is the Picnic**

**THURSDAY JULY 5, 2018-** RARA Board of Directors  
**CANCELLED**

**SATURDAY JULY 14, 2018— PICNIC 11AM till 2PM**  
Stewart Lodge—Mendon Ponds Park

**SATURDAY AUGUST 18, 2018—**International Lighthouse  
**SUNDAY AUGUST 19, 2018** Lightship Weekend  
11AM to 5PM Charlotte Lighthouse

**FRIDAY SEPTEMBER 21, 2018— BANQUET**  
Burgundy Basin Inn

**WEDNESDAY NOVEMBER 7, 2018— RARA Auction**

**SATURDAY FEBRUARY 9, 2019—WINTERFEST**  
Stewart Lodge—Mendon Ponds Park



# RARA ACADEMY

Tim Brown, WB2PAY, Education Coordinator  
[https://www.rochesterham.org/rara\\_academy.htm](https://www.rochesterham.org/rara_academy.htm)

## 2018 Spring License Classes:

I want to acknowledge and thank the RARA Instructors who taught RARA's license classes.

Technician Class: Larry Hill, N2AJX  
General Class: Freddie Sulyma, WB2GFZ  
Extra Class: John Viggiano, NV2K

## 2018 Academy Workshops:

Thank you to those who conducted the RARA Academy Workshops:  
Software Defined Radio presented by Forest Shick, WA2MZG  
Arduino Microcontroller presented by Scott Theis, W2LW  
Dual Band Antenna Build presented by John Viggiano, NV2K,  
Gary Skuse KA1NJL,  
Jon Arney, WB3LHI  
Soldering & DIY Best Practices presented by Scott Theis, W2LW,  
Tim Brown, WB2PAY

No Academy training sessions will be held in July or August.

## SOLDERING WORKSHOP

Members learned and practiced basic soldering skills. A major take away was that soldering irons and guns must be properly prepared or "tinned" both before initial use and periodically during use. A variety of soldering tools were on display and used during the workshop. Scott Theis, W2LW, presented instruction on safety and soldering techniques. Practice, Practice and more Practice is the key to mastering soldering skills.

All learning and training does not happen in a classroom. Join RARA at one of the Summer Operational opportunities:

## FIELD DAY OPERATIONS

On June 23 & 24, Venture out to a FIELD DAY SITE in the area and get involved in setting up antennas, HF and VHF operations and socialize with other hams. You can locate area sites at the ARRL locator site: <http://www.arrl.org/field-day-locator>



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### **RARA PICNIC AND OPERATING EVENT**

On Saturday July 14th at Stewart Lodge, Mendon Ponds Park, RARA will have our annual picnic. Good Food along with antennas in the trees and rigs to operate make this event a pleasant Summer experience. Come operate the Clubs rigs, Yaesu FT-450 and Ten Tec Omni, or bring your own rig and antenna.

### **International Lighthouse Lightship Weekend - ILLW**

On August 18 & 19, RARA will be operating HF from the grounds of the Charlotte Lighthouse which is the oldest surviving lighthouse on Lake Ontario.

This is **NOT A CONTEST**, it is an enjoyable, casual operating event. Again the RARA Club rigs will be available to operate. Antennas will be erected on Friday the 17th at 3pm.

For more information or to sign up to help, contact Dave Timmons, W2DST ([W2DST@arri.net](mailto:W2DST@arri.net)) or Tim Brown, WB2PAY ([tjbrown@rochester.rr.com](mailto:tjbrown@rochester.rr.com)).

### **ACADEMY WORKSHOP- DMR AND D-STAR**

On Saturday September 8th, the Digital Communications Association of Perinton, DCAP, will present a RARA Academy session on DMR, D-Star and other digital modes. Watch the Sept Rag for more details.

Mike Moore, KC2NM will be the lead for this program.

Scott Theis and Tim Brown are working on the next set of Academy Workshops. If you have a topic that you think will interest the membership, drop an email to [education@rochesterham.org](mailto:education@rochesterham.org)

Academy Workshops are held at the BSA Headquarters, 2320 Brighton Henrietta Town Line Rd, 10am to noon. You may sign up for Academy Workshops by emailing [education@rochesterham.org](mailto:education@rochesterham.org)

**Please take advantage of these RARA sponsored training and operating opportunities.**

## **HAMFEST REPORT**

Tim Guyot, KB1POP

This year's Hamfest was a great success, and set the stage for a bigger event next year.

Critical Stats:

Flea Market Sellers: 64  
Attendees: 569

We heard a lot of good feedback on the new location with plenty of space and easy parking and are already getting started on having the Rochester Hamfest there again next year.

We understand that people were disappointed in 2017 with the last-minute layout changes that the weather forced on us and we hope everyone who came this year will help spread the word about how good the new venue was. We expect that good word of mouth combined with much earlier advertising will result in increased attendance at the 2019 Hamfest.



The hard ground allowed trucks, cars, and RVs to park anywhere on the grounds without concern of sinking and the existing roads were helpful in guiding traffic as it came in from the street. It's a little off the beaten path, but directions are simple and we didn't receive any complaints about finding the location. There's also plenty of room to grow in future years.

It takes a lot of work and planning to make this event happen, and we want to express our thanks to those who helped.

Volunteers:

Tim Brown WB2PAY  
Lee Morelli WB2JOR  
Forest Shick WA2MZG  
Dave Wilson WA2HOY  
Rodger Burkhart W2RMB  
Dave and Sue Waterstraat W2DEW  
John Viggiano NV2K  
Tom Wood KD2OIB  
Bob Berch KD2NCT

Mike Kolstee KD2IZQ  
Mark Pedersen KC2UES  
Mike Moore KC2NM  
Troy Rank KC2BZM  
Tim Guyot KB1POP  
Tim Barrett K9VB  
Karl Heinz Kremer K5KHK  
Ed Gable K2MP  
Barry Blake AE2M



(If you volunteered, but aren't on this list, please e-mail [hfproducer@rochesterham.org](mailto:hfproducer@rochesterham.org), we want to make sure you get your membership points and a T-shirt if you didn't get yours at the hamfest)

Volunteer Examiners (21 attendees took license exams):

|                           |                         |
|---------------------------|-------------------------|
| Frederick Shippey, WA2BQA | Lawrence Safford, AB2OY |
| Joseph Kirchner, KC2MGH   | Robert Horner, KB2YEM   |
| William Gibson, KB2CHD    | Donald Kiser, AC2EV     |

ARES:

Talk-In Operation

The ARRL:

Supporting RARA, our Hamfest, and the Amateur community.

Our hosts:

The Hilton Exempt Club and the Hilton Fire Department

Our Delicious Food Vendors:

Breakfast: Hot breakfast foods, and of course coffee from Tech Logistics & Svcs

Lunch: Grill favorites and sides from Todd Verno of Verno On The Roll

Raffle and Door Prize Vendors:

Bird  
CQ Magazine  
Circuit Cellar  
DX Engineering  
Five Dash  
MFJ  
NCG Company

Nuts and Volts  
QRP ARCI  
RF Adapter Guy  
RSGB  
Servo  
Tigertronics  
Universal Radio

Thanks Again to all, can't wait for next year!

2018 Rochester Hamfest Committee

Tim Guyot KB1POP

Mike Kolstee KD2IZQ

Mike Moore KC2NM

Forest Shick WA2MZG



## Lincon Web says

### “Click This”

#### CLUBS

[Society of Amateur Radio Astronomers](#)  
[The KD2SL Repeaters](#)  
[Four States QRP Group](#)  
[ORO Valley ARC](#)

#### STORES

[QRPver](#)  
[Elecraft](#)  
[Pololu](#)  
[YourDuino](#)

#### SOFTWARE

[DXSoft](#)

#### SDR

[Quadrature Mixers, IQ Demodulation and the Tayloe Detector](#)

## PUBLIC SERVICE

Mike Moore, KC2NM, Public Service Coordinator

The American Diabetes Association Rochester Tour de Cure was held on Saturday June 9 at the Xerox Campus in Webster. I have received emails from participants, planning team members and the ADA congratulating us on the execution of the communications effort. This year there were 1,845 cyclists, walkers and runners who are on pace to again raise more than \$1M for the mission of the ADA right here in Rochester. This money will fund:



**Research for a cure.** We fund the most promising research around the globe, but are fortunate to have world class research institutions in our own backyard--University of Rochester and Cornell. We are currently funding studies at those institutions that will eventually be another puzzle piece for the cure.

**Advocacy for those living with diabetes.** Nationally that means fighting for health care, affordable insulin and workers' rights. Locally that can take the form of educating school systems and school nurses to allow kids living with Type 1 to remain in their schools.

**Programs like Camp Aspire,** a summer camp at the Rotary Sunshine Camp in Rush coming up the first two weeks in July where kids living with Type 1 have the chance to "just be normal," learn better diabetes management, and meet a support system of peers dealing with the same daily struggles they are.

Take a look at the pictures on Facebook so you get to see more of the event. The first album is up and two more are coming!

[https://www.facebook.com/pg/tdcrochester/photos/?tab=album&album\\_id=10156393796844719](https://www.facebook.com/pg/tdcrochester/photos/?tab=album&album_id=10156393796844719)

The following communications team members participated in this year's Tour de Cure. K2DV, K2DWA, K2ELV, K2GC, K5KHK, KA2CGB, KB2FSB, KB2KNU, KB2NCI, KC2KPG, KC2NM, KC2UES, KC2YGH, KD2BEC, KD2DNO, KD2OHI, KS2JEK, N2FV, N2JAC, N2PEZ, W2COP, W2IT, WB2GFZ, and WA2LEW. And, I want to especially thank the members of SIARC for participating, and Drumlins ARC for participating and providing the excellent WA2EMO repeaters used for this event.

I am very pleased to announce that Ed Wilkonski K1EM will serve as Captain of the Pumpkin Patrol team this year. Brad Allen KB2CHY has served effectively in this role for the past several years and the three of us met recently to discuss this transition. I want to welcome Ed to this role and to thank Brad for his service as Pumpkin Patrol team captain!

Remaining events in the 2018 public service calendar are listed in the following table. Visit [https://rochesterham.org/public\\_service.htm](https://rochesterham.org/public_service.htm) for more information and to volunteer.

|                                   |                                          |                      |                |
|-----------------------------------|------------------------------------------|----------------------|----------------|
| Bike MS: ROC the Ride             | Genesee Valley Park - Rochester, NY      | Saturday             | August 25      |
| Fairport Lift Bridge Regatta      | Erie Canal – Fairport, NY                | Sunday               | September 30   |
| Jamboree on the Air               | BSA Camp Babcock-Hovey Ovid, NY          | Friday - Saturday    | October 19-20  |
| Pumpkin Patrol                    | Overpasses of the New York State Thruway | Tuesday & Wednesday  | October 30-31  |
| Holiday Science & Technology Days | Rochester Museum & Science Center        | Wednesday - Saturday | December 26-29 |

## ROCHESTER HAMFEST COUNTRY STORE

Someone purchased a Cushcraft R5 vertical antenna at the Country Store during the Rochester Hamfest. You are missing the radial rods for the antenna. Please send an email to [wa2mzg@arrl.net](mailto:wa2mzg@arrl.net) if you would like the radial rods.



## TECHNOLOGY GRANT

The Rochester Amateur Radio Association awarded its 2018 Educational Grant to St. Louis School, Pittsford, NY on May 25. The \$2000 grant will be used to purchase four Lego EV3 Robotics Kits. The kits will be used to prepare students to compete in the 2018 FIRST Robotics Competition. FIRST engages kids in kindergarten through high school in exciting, mentor-based, research and robotics programs that help them become science and technology leaders, as well as well-rounded contributors to society.

The purpose of the RARA educational grant is to provide funding for educational projects and specific equipment needs in the STEM fields of electronics and radio communications with emphasis on youth-based activities. This grant is one of the many ways that RARA fulfills its mission to “promote scientific education and knowledge of radio engineering and communication skills by facilitating the exchange of information, improving individual operating efficiency and strengthening the welfare of amateur radio in the community”.



St. Louis Catholic School is a faith—and values—centered community dedicated to providing academic excellence for children in preschool through grade 5. St. Louis School, in partnership with families and the community, strives to provide students with experiences that encourage individuality and the development of mind, body and spirit. St. Louis School has a recognized STEM program.

The award was presented May 25, 2018 by Tim Brown WB2PAY RARA Education Chairman and Treasurer Brian O'Connor KA2CGB at a ceremony that was held at the school.

## SEPTEMBER BANQUET

As summer comes to an end and everything jumps into high gear after a summer of relaxing in the sun, how about 1 more evening of relaxing at our banquet (before the snow flies). It is always enjoyable sitting around talking over a good meal with friends and ending the evening with a presentation on a topic of interest to all.



This year our guest speaker will be Jim Herbst, KC2KNJ and his presentation will be on US Coast Guard Communications.

## RADIOS and Airplanes

Gary Skuse, KA1NJL

On May 20<sup>th</sup> Ed Wilkonski, K1EM, and I spent the day at the Williamson Flying Club's Apple Blossom Festival at the Williamson Airport. The flying club sponsors an annual pancake breakfast so we took advantage of the opportunity to set up a station, spread the word about amateur radio to the crowd and enjoy a great breakfast.

Despite the rainy weather we set up a table under a tent next to the folks from the Drumblins Amateur Radio Club and fielded questions from those people who weren't daunted by the rain. Ed was good enough to secure the special event callsign N2N but our location on the asphalt between two metal hangers limited our performance on HF.



Overall it was a good day looking at airplanes and interacting with an enthusiastic stream of visitors to our table. I encourage anyone who is interested in general aviation to look out for next year's event and if you would like to join us in promoting amateur radio we'll welcome the company.



# XARC AND MONROE COUNTY ARES FIELD DAY





# RDXA FIELD DAY





# Batavia Hamfest

## Saturday - July 21, 2018

### Alexander Firemen Grounds

10708 Alexander Rd. Route 98,  
One mile south of Rt 20 , Alexander NY 14005 [MAP](#)

Outdoor Flea Market - FREE Tailgating 6:00am - till  
Buy/Sell Ham radio gear

Fun... Prizes.. Contests.. Fox Hunt ... L

Overnight Camping Allowed - Arrive after 6PM on Friday ( the  
night before hamfest) .

Only \$7.00 admission includes free tailgating and free indoor  
spaces

VE Exam 8:00 AM To Pre register for test -  
contact John Maxwell [maxwell@acsu.buffalo.edu](mailto:maxwell@acsu.buffalo.edu) or Call 716--  
404-9256

Talk In: 147.285 PL 141.3 Batavia repeater

Breakfast and lunch available

Sponsored by: The Lancaster Amateur Radio Club - [w2so.org](http://w2so.org)

Questions : contact - Luke N2GDU  
[luke48@gmail.com](mailto:luke48@gmail.com)

## ROC CITY NET HAMFEST



ROC CITY Hamfest flyer at the end of RAG

RAGS Hamfest flyer at the end of RAG



# VE TEAM

The next **ALWAYS FREE** testing session:

Saturday September 15th  
Rochester Institute of Technology  
Kate Gleason College of Engineering  
Gleason School of Engineering  
Room 3139, Bldg. 9  
Use "J" parking lot

Registration at 9:45AM  
Testing at 10:00AM

You do not have to preregister.

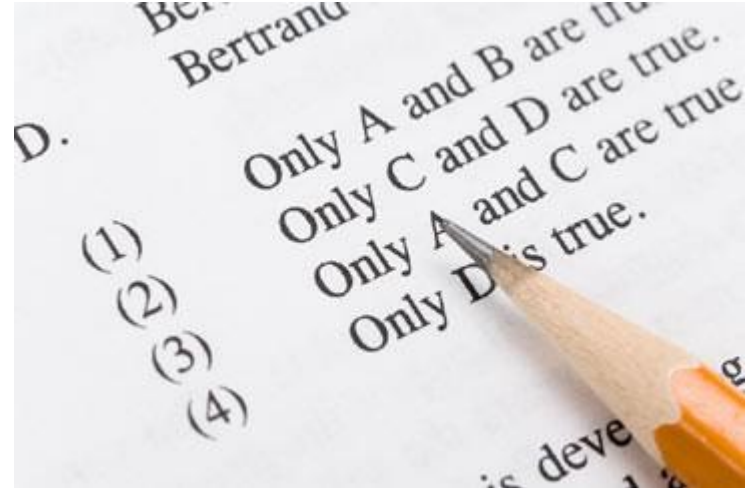
To avoid giving your SSN go to:

<http://wireless.fcc.gov/uls/index.htm?job=home>  
Register and bring the resultant FRN.

For more info:

<https://www.laurelvec.com/?team=RARA>

Don Kiser - AC2EV  
RARA Board member  
VE Team Leader  
585-613-1035



|                       |        |   |                           |        |   |
|-----------------------|--------|---|---------------------------|--------|---|
| Jeremy Surface        | KD2PTD | G | <b>Ross Robinson</b>      | AJ6DR  | E |
| <b>Kurt Domm</b>      | KD2PYG | T | <b>Phillip Colantonio</b> | KD2PYF | T |
| <b>Patrick Ryan</b>   | KD2PYH | G | Dennis O'Donnel           | KD2NQI | E |
| Grace Waddy           | KD2PQO | G | <b>Mark Piazza</b>        | KD2PYI | T |
| Chester Burton        | KC2NYB | G | <b>David Eschmann</b>     | KD2PYJ | T |
| <b>Wyatt Robinson</b> | KM6TVH | T | Peter Whitmore            | KD2MGJ | G |

New licensees names are in BOLD

# RaRa CALENDAR

Tim Barrett, K9VB

| July 2018                                                                                                                                                                                                                             |                                                                                                                            |                                                                                   |                                                                                                                                               |                                                                                                                                                                                                                                          |                                                                                                |                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sun                                                                                                                                                                                                                                   | Mon                                                                                                                        | Tue                                                                               | Wed                                                                                                                                           | Thu                                                                                                                                                                                                                                      | Fri                                                                                            | Sat                                                                                                                                                                                                                                                                                     |
| <b>1</b><br><b>RAGS Hamfest, Siracuse, NY</b><br>RAC Canada Day Contest<br>IQRP Quarterly Marathon                                                                                                                                    | <b>2</b><br>10-10 Spirit of 76 QSO Party<br>IQRP Quarterly Marathon<br>RSGB 80 Meter CW Championship<br>ARS Spartan Sprint | <b>3</b><br>10-10 Spirit of 76 QSO Party<br>IQRP Quarterly Marathon<br>Phone Fray | <b>4</b><br><b>No RaRa General Meeting</b><br>10-10 Spirit of 76 QSO Party<br><b>ROC City Net 8:00pm 3.826 MHz</b><br>IQRP Quarterly Marathon | <b>5</b><br><b>RaRa BoD Meeting 5:45pm Nova-works 333 Metro Park</b><br>10-10 Spirit of 76 QSO Party<br>IQRP Quarterly Marathon<br><b>ARES Net 146.61 MHz 7pm</b><br>NRAU 10 Meter Activity Contest<br>SKCC Sprint Europe<br>NCCC Sprint | <b>6</b><br>10-10 Spirit of 76 QSO Party<br>IQRP Quarterly Marathon<br>FISTS Slow Speed Sprint | <b>7</b><br><b>AWA Museum Open 1pm - 5pm</b><br>10-10 Spirit of 76 QSO Party<br>IQRP Quarterly Marathon<br>DL-DX RTTY Contest<br>SKCC Sprintathon<br>Marconi Memorial HF Contest<br>Original QRP Contest<br>PODXS 070 40M Firecracker Sprint                                            |
| <b>8</b><br>10-10 Spirit of 76 QSO Party<br>IQRP Quarterly Marathon<br>DL-DX RTTY Contest<br>SKCC Sprintathon<br>Marconi Memorial HF Contest<br>Original QRP Contest<br>PODXS 070 40M Firecracker Sprint<br>4 States QRP Group Sprint | <b>9</b>                                                                                                                   | <b>10</b><br>Phone Fray                                                           | <b>11</b><br><b>ROC City Net 8:00pm 3.826 MHz</b><br>RSGB 80 Meter SSB Contest                                                                | <b>12</b><br><b>ARES Net 146.61 MHz 7pm</b><br>NCCC Sprint                                                                                                                                                                               | <b>13</b><br>FISTS Summer Sprint                                                               | <b>14</b><br><b>AWA Museum Open 1pm - 5pm</b><br><b>RaRa Summer Picnic, Stewart Lodge Mendon Ponds Park 12:00</b><br>IARU HF World Championship                                                                                                                                         |
| <b>15</b><br>IARU HF World Championship<br>QRP ARCI Homebrew Sprint<br>Run for the Bacon Sprint                                                                                                                                       | <b>16</b>                                                                                                                  | <b>17</b><br><b>SIARC 7.30pm</b><br>Phone Fray                                    | <b>18</b><br><b>ROC City Net 8:00pm 3.826 MHz</b>                                                                                             | <b>19</b><br><b>ARES Net 146.61 MHz 7pm</b><br>NCCC Sprint                                                                                                                                                                               | <b>20</b>                                                                                      | <b>21</b><br><b>AWA Museum Open 1pm - 5pm</b><br><b>Batavia Hamfest, Alexander NY</b><br>Russian Radio Team Champ.<br>X-Tasman Low-Band Challenge<br>Jakarta DX Contest 40M<br>DMC RTTY Sprint<br>NA QSO Party RTTY<br>CQ WW VHF Contest<br>SA Sprint Contest<br>RSGB Low Power Contest |
| <b>22</b><br>DMC RTTY Sprint<br>NA QSO Party RTTY<br>CQ WW VHF Contest<br>RSGB Low Power Contest<br>CQC Great Colorado Gold Rush                                                                                                      | <b>23</b>                                                                                                                  | <b>24</b><br>Phone Fray                                                           | <b>25</b><br><b>ROC City Net 8:00pm 3.826 MHz</b>                                                                                             | <b>26</b><br><b>ARES Net 146.61 MHz 7pm</b><br>NCCC Sprint<br>RSGB 80 Meter Data Contest                                                                                                                                                 | <b>27</b>                                                                                      | <b>28</b><br><b>AWA Museum Open 1pm - 5pm</b><br>RSGB IOTA Contest                                                                                                                                                                                                                      |
| <b>29</b><br>RSGB IOTA Contest<br>ARS Filght of the Bumblebees                                                                                                                                                                        | <b>30</b>                                                                                                                  | <b>31</b><br>Phone Fray                                                           |                                                                                                                                               |                                                                                                                                                                                                                                          |                                                                                                |                                                                                                                                                                                                                                                                                         |



# NEWS FROM AREA CLUBS

## MONROE COUNTY ARES / RACES News

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend.



**There will be no meeting in July or August.**

The next ARES Meeting will be held on: **Thursday, September 22, 2016, at 6:00 PM.**

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

### ARES NET:

Monroe County ARES/RACES meets on the air every Thursday of the month at 6:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

**WEB:** [www.monroecountymcomm.org](http://www.monroecountymcomm.org)

### Severe Weather Alerts:

Winter brings severe weather in the form of heavy snow and strong winds. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads )

### NBEMS:

Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting through June 2019.

## ROCHESTER DX ASSOCIATION, RDXA

RDXA meets the 3rd Tuesday of every month (September through May) except for December, which is the Annual Holiday Banquet. Meetings are open to everyone and all are encouraged to attend.



Meetings are held at the Monroe County EOC 1190 Scottsville Rd. (second floor), Rochester, NY 14624 at 7:30PM.

## ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association, RRRA invites you to attend its meetings. Meetings are held on the 3rd Friday of the month in the Pittsford Town Hall Basement starting at 7:30 PM.

There will be no meetings held during July and August, we will be on summer hiatus till September 21st. 2018th when our regularly scheduled meetings will resume. Stay tuned to our web site, [www.k2rra.org](http://www.k2rra.org)

RRRA's Officer Election was held on June 15th. The RRRA officers for 2018 - 2019 are , Bob O'Dell, N2BZX President, Bob Shewell, N2HJD Vice President, ED Wilkonski, KC2WM Secretary, and Bob Smith, NS2B-Treasurer / Membership Chairman.

RRRA also accepts donations to the club. Please consider volunteering to become an officer of RRRA. This club can't exist without members. If you are not currently a member and want to support RRRA, you can join at our monthly meeting or on our web site [www.k2rra.org](http://www.k2rra.org)

## ROCHESTER VHF GROUP

The Rochester VHF Group sponsors an informal On-Air Net every Monday at 2100 local time on 144.260 MHz USB and a 6 Meter Net every Thursday at 2100 local on 50.200 MHz USB.

More club information can be found by visiting [www.rvhfg.org](http://www.rvhfg.org) or just calling in any Monday or Thursday night. All are welcome to check in to these nets.

## XRX AMATEUR RADIO CLUB

No July and August meetings for the XRX Amateur Radio Club. Our next meeting will be on September 13, 2018. Stay up-to-date at <http://xarc.us>

## SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The next meeting will be on Wednesday, July 11th. There will be License Exam Testing this month. 73's Steve Benton VP SIARC WB2VMR

## AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST meets the third Thursday of every month at the Town and Country Fire Department on Gardner Rd in Horseheads New York. Chemung County ARES (CCARES) meets the first Tuesday of the month except February at Harris Hill. See [www.ccares.info](http://www.ccares.info) for details. CCARES covers the entire area in Chemung, Schuyler and Steuben counties and all are welcome.

On April 14, 2018 The club participated in our first Twin Tiers Makers Faire at the Arnot Mall in Horseheads. If you would like to see photos of what was going on that day a link is available on our website [www.arast.info](http://www.arast.info). I was told there was a link on the home page.

June was field days at Cabin 5 on Harris Hill next to the National Soaring Museum. Steven KD3DOW should have some photos available on the website. Thanks to all who made the day a great one.

August will bring our next public service event; Strong Kids -Safe Kids at the Chemung County Fair Grounds. Amateurs man the entrance gates and provide communications to the organizers. It's going to be a good time.

Don't forget the hamfest at the Chemung County Fairgrounds in Horseheads Saturday September 29, 2018. Tickets will be available from any board member and on our website ([www.arast.info](http://www.arast.info)) as we get closer to the venue date.

Communicators are needed to help out with the 2018 Wineglass Marathon Sunday September 30, 2018. If you can help out (even for a few hours) contact the Emergency Coordinator [emergencycoordinator@stny.rr.com](mailto:emergencycoordinator@stny.rr.com) as soon as possible. We have to let the EMO's office know who will be participating.

Our website is still under construction. It is anticipated that construction will continue until after the Hamfest. Until that is finished check us out at [www.arast.info](http://www.arast.info).

Don't forget to check out our repeaters when you visit the area. The N3AQ 147.36(+) and the 146.70(-) are the principal 2 meter repeaters. Also Echolink is available using the call sign KA2BED-R. Check it out. A full list of available repeaters that can be heard in the twin tiers area surrounding Chemung County can be found at [www.arst.info/arast\\_website/public/repeaters.php](http://www.arst.info/arast_website/public/repeaters.php).

## COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7pm. Each meeting has a brief training/refresher period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9pm (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30pm on 147.285+. We'd love to hear you check-in! Take a look at the club website for more info: [www.k2srv.org](http://www.k2srv.org)

## DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communications modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and public [DSTAR hotspots](#) (using the dvprtr board), Yaesu fusion systems on non-club repeaters and DMR. The last mode is being enjoyed locally through a [DV-Mega-Raspberry Pi](#) combination. DCAP meets for breakfast at 7am nearly every Saturday morning at [Rikki's Family Restaurant](#) in Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL of 110.9 Hz.

## WESTSIDE AMATEUR RADIO CLUB

The mission of the Westside Amateur Radio Club is to provide emergency communications services to the community, to assist other civic organizations, to promote the technical craft of amateur radio through class training and testing, to mentor new members, and enhance fellowship among radio amateurs.

The Westside Amateur Radio Club meets on the first Tuesday of the month, 7PM, at the Chili Public Library. The Library is located at 3333 Chili Ave, Rochester, NY 14624.

The talk in repeater for all meetings is the WR2AHL Repeater 146.760MHz - 110.9. AllStar, Echolink, and web streaming connections are available. Website: <http://WestsideAmateurRadio.club>

## INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Interlock Rochester is open most every Tuesday night at 7pm. We're in the Hungerford Building (1115 East Main Street, Rochester NY), just north of Village Gate. Come to Door #7 (to the left of Comics Etc) and buzz Suite 200. Want to know more? Visit our website at <http://www.interlockroc.org/>, contact us at [info@interlockroc.org](mailto:info@interlockroc.org), or find us in #interlock on Freenode IRC.



# GENESEE VALLEY AMATEUR RADIO ASSOCIATION

## 2018 Meeting and Testing Schedule

### Testing Schedule:

Saturday, September 15, 2018 1:00 PM - 2:00 PM

Saturday, October 20, 2018 1:00 PM - 2:00 PM

Meetings to follow after testing.

### Location -

Brick Presbyterian Church

6 Church St.

Perry, NY 14530

Email [n3dsp@lafireline.net](mailto:n3dsp@lafireline.net) for details.

## ROCHESTER MAKERSPACE

The Rochester Makerspace is located at the rear of 850 St. Paul Street in almost 4,000 square feet of workspace. We are a volunteer-run 501c(3) nonprofit organization and our mission is to encourage learning, creativity and collaboration. We do that by providing low-cost and free access to sophisticated tools, offering a wide variety of classes, and by providing opportunities for "makers," artists and crafts persons of all kinds to meet and learn from each other.

Drop in to explore, learn and make at our weekly open house:

Every Thursday Night, 6 to 10 PM – Weekly Community Night & Open House

Every Saturday, 11 AM to 3 PM – Weekly Community & Open House

Park in the lot at Scrantom St. and Conkey Ave. and follow the signs.

Every Thursday Night, 7 to 9:30 PM – Microcontrollers & Robotics Meetup

A ham bench is set up with a 2 meter FM radio and a laptop with WebSDR. Waiting for nicer weather to install outside antennas for the Heathkit HW101 transceiver and Kenwood all mode 2 meter transceiver. Donations of ham equipment accepted.

For more information visit [Rochestermakerspace.org](http://Rochestermakerspace.org)

## ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE

For more information visit <http://www.rochesterastronomy.org/>

## FOR SALE

- **For sale:** Icom IC-R75 general coverage receiver.
- Excellent condition.
- Includes the factory installed DSP filter and a Kiwa synchronous detector installed by Kiwa.
- \$500 or best offer.



- **For sale:** Yaesu FT-736R 2M/440 all mode transceiver.
- Excellent condition.
- Includes 9k6 baud packet modification, Yaesu hand mic, user's manual and carry handle.
- \$700 or best offer.



Please contact Gary at [ka1njl@arrl.net](mailto:ka1njl@arrl.net).

## THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

### THE RADIO AMATEUR IS:

- |                    |                                                                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONSIDERATE</b> | Never knowingly operating in such a way as to lessen the pleasure of others.                                                                                                                                               |
| <b>LOYAL</b>       | Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.            |
| <b>PROGRESSIVE</b> | With knowledge abreast of science, a well built and efficient station and operation beyond reproach.                                                                                                                       |
| <b>FRIENDLY</b>    | With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit. |
| <b>BALANCED</b>    | Radio is an avocation, never interfering with duties owed to family, job, school or community.                                                                                                                             |
| <b>PATRIOTIC</b>   | With station and skill always ready for service to country and community.                                                                                                                                                  |

# RARA MARKETPLACE

Your commercial ad could be here! The RARA RAG can help spread the word on your business at very reasonable rates.  
Contact us for details at [editor@rochesterham.org](mailto:editor@rochesterham.org).

Michele A. Jamison, MD  
Office Hours  
by Appointment

**Jamison Eye Care**

[www.JamisonEye.com](http://www.JamisonEye.com)

90 Erie Canal Drive | Rochester, NY 14626 | P: (585) 225-5883

ELECTRICAL WORK • TELEPHONE JACKS • CABLE TV  
BURGLAR ALARM SYSTEMS • PADDLE FANS

**MARTIN IPPOLITO**  
Master Electrician

Call 585-266-6337

P.O. Box 17438  
Rochester, NY 14617  
N2HEG

## PROMOTE YOUR BUSINESS WITH RAG ADVERTISING

Ad size and cost—**per year**:

|               |       |
|---------------|-------|
| Business Card | \$140 |
| Quarter Page  | \$300 |
| Half Page     | \$600 |

Your advertisement will be seen by amateurs in Rochester, Monroe County, New York State, the United States and even the rest of the world. RAG circulation is approx. 4,500.

**Pass it forward**  
by donating your radio  
or accessory to RARA.



Your item may be sold at future RARA events with proceeds to benefit RARA members.

You will get a tax-deductible receipt and the satisfaction that comes with doing good for others.

Call 585-210-8910 or email  
[Secretary@RochesterHam.org](mailto:Secretary@RochesterHam.org).

RARA is an IRS 501.c.3 non-profit

Consult with your tax advisor.



# RARA OFFICERS, DIRECTORS AND COORDINATORS

## OFFICERS

|                                             |                |                                                            |                                             |                |                                                      |
|---------------------------------------------|----------------|------------------------------------------------------------|---------------------------------------------|----------------|------------------------------------------------------|
| <b>President:</b><br>Forest Shick, WA2MZG   | (585) 721-1653 | <a href="mailto:wa2mzg@arrl.net">wa2mzg@arrl.net</a>       | <b>Treasurer:</b><br>Brian O'Connor, KA2CGB | (585) 721-2346 | <a href="mailto:ka2cgb@arrl.net">ka2cgb@arrl.net</a> |
| <b>Vice-President:</b><br>Tim Guyot, KB1POP | (585) 406-3163 | <a href="mailto:timguyot@gmail.com">timguyot@gmail.com</a> | <b>Secretary:</b><br>Anand Choudri, KC2KPG  | (585) 377-0759 | <a href="mailto:kc2kpg@arrl.net">kc2kpg@arrl.net</a> |

## DIRECTORS

|                   |                |                                                                        |                       |                |                                                                |
|-------------------|----------------|------------------------------------------------------------------------|-----------------------|----------------|----------------------------------------------------------------|
| Tim Barrett, K9VB | (585) 582-2108 | <a href="mailto:tim.k9vb@gmail.com">tim.k9vb@gmail.com</a>             | Mark Pedersen, KC2UES | (585) 613-4052 | <a href="mailto:mpeder21@gmail.com">mpeder21@gmail.com</a>     |
| Tim Brown, WB2PAY | (585) 750-2087 | <a href="mailto:tjbrown@rochester.rr.com">tjbrown@rochester.rr.com</a> | Gary Skuse, KA1NJL    | (585) 223-1511 | <a href="mailto:ka1njl@arrl.net">ka1njl@arrl.net</a>           |
| Don Kiser, AC2EV  | (585) 613-1035 | <a href="mailto:dkiser100@gmail.com">dkiser100@gmail.com</a>           | Scott Theis, W2LW     | (845) 774-9809 | <a href="mailto:sa_theis@hotmail.com">sa_theis@hotmail.com</a> |
| Mike Moore, KC2NM | (585) 721-0011 | <a href="mailto:mikemoore@ieee.org">mikemoore@ieee.org</a>             |                       |                |                                                                |

## ACTIVITY COORDINATORS

|                             |                                                                |                                                                                                                                                                                      |                              |                                                    |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Club Historian</b>       | Ed Gable, K2MP                                                 | <a href="mailto:egable@rochester.rr.com">egable@rochester.rr.com</a>                                                                                                                 | <b>Membership Secretary</b>  | Tim Barrett, K9VB                                  | <a href="mailto:tim.k9vb@gmail.com">tim.k9vb@gmail.com</a>                                                                       |
| <b>Club Station Trustee</b> | Jim DiTucci, N2IXD                                             | <a href="mailto:n2ixd@arrl.net">n2ixd@arrl.net</a>                                                                                                                                   | <b>Public Service</b>        | Mike Moore, KC2NM                                  | <a href="mailto:mikemoore@ieee.org">mikemoore@ieee.org</a>                                                                       |
| <b>Education</b>            | Tim Brown, WB2PAY                                              | <a href="mailto:tjbrown@rochester.rr.com">tjbrown@rochester.rr.com</a>                                                                                                               | <b>Raffle Administrators</b> | <b>Volunteers Needed</b>                           |                                                                                                                                  |
| <b>Hamfest Co-Producers</b> | Tim Guyot, KB1POP<br>Mike Kolstee, KD2IZQ<br>Mike Moore, KC2NM | <a href="mailto:timguyot@gmail.com">timguyot@gmail.com</a><br><a href="mailto:mckolst@yahoo.com">mckolst@yahoo.com</a><br><a href="mailto:mikemoore@ieee.org">mikemoore@ieee.org</a> | <b>RARA RAG Editor</b>       | Forest Shick, WA2MZG                               | <a href="mailto:editor@rochesterham.org">editor@rochesterham.org</a>                                                             |
| <b>VE Team</b>              | Don Kiser, AC2EV                                               | <a href="mailto:dkiser100@gmail.com">dkiser100@gmail.com</a>                                                                                                                         | <b>Refreshments</b>          | Kelly Nichols, KD0FOP<br>Robert Mac Donald, KD2OHI |                                                                                                                                  |
| <b>Media Communications</b> | Tim Guyot, KB1POP                                              | <a href="mailto:timguyot@gmail.com">timguyot@gmail.com</a>                                                                                                                           | <b>Venture Crew</b>          | Stephen Fell, K2SRF<br>Mark Pedersen, KC2UES       | <a href="mailto:k2srf@rochester.rr.com">k2srf@rochester.rr.com</a><br><a href="mailto:mpeder21@gmail.com">mpeder21@gmail.com</a> |
| <b>Meeting Audio</b>        | Brad Allen, KB2CHY                                             | <a href="mailto:ballen@frontiernet.net">ballen@frontiernet.net</a>                                                                                                                   | <b>Webmaster</b>             | Scott Theis, W2LW                                  | <a href="mailto:webmaster@rochesterham.org">webmaster@rochesterham.org</a>                                                       |

# AUGUST RAG DEADLINE

## JULY 15, 2018



**RARA meets at 7PM on the  
first **Wednesday** of each month. Join  
us at:**

Seneca Waterways Council, BSA Headquarters  
2320 Brighton Henrietta Town Line Rd  
Rochester, New York 14623

**Get Directions**

**Rochester Area Repeater Listing**

## ***THE RARA RAG***

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Website – <http://www.rochesterham.org>

# ROCHESTER AREA RADIO CLUB CONTACTS

**Antique Wireless Association (AWA)**  
Lynn Bisha, W2BSN: [lbisha@rochester.rr.com](mailto:lbisha@rochester.rr.com)

**Amateur Radio Association of the Southern Tier (ARAST)**  
Reiner Dieg, N2PEZ: [rdieg@yahoo.com](mailto:rdieg@yahoo.com).

**Astronomy Section Rochester Academy of Science**  
Mark Minarich: [mminaric@rochester.rr.com](mailto:mminaric@rochester.rr.com)

**Community Amateur Radio Club (CARC)**  
Joe Gangi, AC2NB: [ac2nb.carc@gmail.com](mailto:ac2nb.carc@gmail.com)

**Digital Communications Association of Perinton (DCAP)**  
Gary Skuse, KA1NJL: [ka1nil@arri.net](mailto:ka1nil@arri.net)

**Drumlins Amateur Radio Club Ltd. (DARC)**  
Alan Cook, K2MPE: [alancook948@gmail.com](mailto:alancook948@gmail.com)

**Fisherman's Net Amateur Radio Club**  
Jim Sutton, N2OPS: [jim@otrym.org](mailto:jim@otrym.org)

**Genesee Valley Amateur Radio Assn.**  
Bill Boyd, N3DSP: [N3DSP@lafireline.net](mailto:N3DSP@lafireline.net)

**Monroe County ARES**  
Jim DiTucci, N2IXD: [n2ixd@arri.net](mailto:n2ixd@arri.net)

**Orleans County Amateur Radio Club (OCARC)**  
Terry Cook, K2EYS: [k2eys@ocarc.us](mailto:k2eys@ocarc.us)

**Rochester Amateur Radio Association (RARA)**  
Forest Shick, WA2MZG: [wa2mzg@arri.net](mailto:wa2mzg@arri.net)

**ROC City Net**  
Jim Merolillo, K2ZX: [k2zx52@gmail.com](mailto:k2zx52@gmail.com)

**Rochester DX Association (RDXA)**  
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**Rochester Makerspace**  
Jason Peppers: [floedaedalus@yahoo.com](mailto:floedaedalus@yahoo.com)

**Rochester Radio Repeater Association (RRRA)**  
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**Rochester VHF Group (RVHFG)**  
John Stevens, WB2BYP: [wb2byp@arri.net](mailto:wb2byp@arri.net)

**Squaw Island Amateur Radio Club (SIARC)**  
Steve Benton, WB2VMR: [sbenton2@rochester.rr.com](mailto:sbenton2@rochester.rr.com)

**Westside Amateur Radio Club**  
Justin Grigg, KC2EQU: [communications@westsideamateurradio.club](mailto:communications@westsideamateurradio.club)

**XXR Amateur Radio Club**  
Brian Donovan, K2AS: [k2as@outlook.com](mailto:k2as@outlook.com)



1ST ANNUAL  
**ROC CITY**  
*Net*  
80 meter - 3.826 (or about) Wednesday - 7:30 pm Eastern  
2 meter - Bristol 145.11 Repeater Sunday 7:30



## HAMFEST

SATURDAY | AUGUST 25

### AT THE LOG CABIN RESTAURANT

2445 W Walworth Road | Macedon, NY

SET UP: 6 AM | OPEN TO PUBLIC: 7 AM

- **Free admission!**
- **Hourly door prizes** provided by our sponsors
- **50/50 raffle**
- Food available for purchase inside the Log Cabin Restaurant and through vendors onsite
- 11 acres for radio gear
- Bring radio gear to swap or sell
- Find that equipment you've been looking for
- Bring your own tables for the swap meet/flea market

**Talk In Channel: 145.11 Repeater (110.9PL)**

#### SPONSORED BY

**Rw AntennaStore**



**MFJ**



**Log Cabin**



**QUESTIONS:** Joe Merolillo | k2zx52@gmail.com | 585.301.3650

# RAGS

# NEW LOCATION

# HAMFEST



# 2018

## Lakeside Fire Station

1002 State Fair Blvd Syracuse, NY

## Sunday July 8, 2018 7:30am – 12:30pm

ADMISSION: \$5/person, Tailgate \$5/car, Inside Tables \$8 Free General Parking

### From E-W

I-90, Exit 39, I-690S/Eastbound  
To Exit 5, State Fair Blvd E  
Hamfest 0.3 mi SE on State Fair Blvd.

### Directions

Talk In  
146.91/31 pl 103.5

### From N-S

I-81 to I-690N/Westbound,  
to Exit 6 To State Fair Blvd W  
Hamfest 2.5 mi NW on State Fair Blvd.

### New Location!!

A/C and Paved Tailgating  
7:00A Setup / 7:30A Open  
7:30A-12:30P  
Buffet Breakfast & Lunch  
V.E. Session  
9:00A

**FCC Exams 9:00A**

**ARRL VE Team**

**Bring \$15 Exact Cash Or M.O.  
and Photo ID. If upgrade,  
bring original  
License & CSCE if applicable.**

## MAIN PRIZES

# \$500

## GIFT CERTIFICATE

To Universal Radio

Hustler 6BTV  
All Band HF Antenna

Tenma 21-1590  
Digital  
Soldering Station



## Buffet



## Breakfast

# Over \$1400

In Total Prizes

Other Prizes Drawn  
Throughout the Day

Last  
Drawing – 12 Noon

## ATM Nearby!

**Onsite Vendor: RW Antenna Store** ([www.rwantennastore.com](http://www.rwantennastore.com))

**Also Radios!!** If you want a specific radio – call Rich . They will bring it to hamfest!

Roger Hamilton - WA2AEW or Rich Bell - KC2CZK or Info: [www.RAGSClub.org](http://www.RAGSClub.org) Hamfest@RAGSClub.org

universal  
radio inc.